



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

OCT 3 2000

400 Seventh St., S.W.
Washington, D.C. 20590

DOT-E 12056
(FOURTH REVISION)

EXPIRATION DATE: January 31, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Department of Defense
Washington, DC
2. PURPOSE AND LIMITATION:
 - a. This exemption authorizes the transportation in commerce of certain non-DOT specification propellant tanks designed to a military specification, overpacked in a UN 1A2 stainless steel drum, containing Division 6.1 liquid or Division 2.3 gas. This exemption provides no relief from any Hazardous Materials Regulation (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.227 and 173.336 in that the requirement for DOT specification packaging is exempted.
5. BASIS: This exemption is based on the application of Department of Defense, Military Traffic Management Command dated November 30, 1999, and supplemental information dated February 15 and August 3, 2000, submitted in accordance with § 107.105 and the public proceeding thereon.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identification Number	Packing Group
Dinitrogen tetroxide, liquefied	2.3	UN1067	N/A
Toxic liquids, corrosive, organic, n.o.s., inhalation hazard, Packing Group I, Zone B*	6.1	UN2927	I, Zone B

*NOTE: Flammable liquid subsidiary risk label required.

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a non-DOT specification aluminum propellant tank without a pressure relief device, overpacked in a UN 1A2 stainless steel drum. The tank is designed in conformance with Military Specification MIL-STD-1522 for pressure vessels with a minimum burst pressure of 150% of the maximum operating pressure.

(1) The propellant tank consists of an outer shell of composite construction, an inlet tube, a positive displacement expulsion liner made of aluminum, and a burst disc assembly and a titanium fill valve. The tank diameter is 7.3 inches maximum and the length is 17.5 inches. The maximum volume of a propellant tank is 8.0 liters.

(2) Each propellant tank is held in a shock-dampening frame which is packaged in a DOT Specification 1A2 steel drum. The drum has a mechanical recorder and visual indicators for shock protection.

b. OPERATIONAL CONTROLS -

(1) The propellant tank may not be pressurized during transportation.

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(2) The propellant tank will be transported by temperature controlled commercial motor vehicles.

(3) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the propellant tanks are not fitted with pressure relief devices and provide appropriate guidance for exposure to fire.

8. SPECIAL PROVISIONS:

a. A total of eighteen (18) round-trips are authorized for propellant shipments from Aerojet, Rancho Cordova, CA. Transportation must be as follows:

(1) from Aerojet, Rancho Cordova, CA to Edwards AFB, CA and return;

(2) from Aerojet, Rancho Cordova, CA to Huntsville, Alabama and return; or

(3) from Aerojet, Rancho Cordova, CA to Kwajalein Missile Range, Marshall Islands and return.

b. MARKING - The outside of each UN 1A2 steel drum must be plainly and durable marked "DOT-E 12056" as specified in § 172.301(c).

c. This exemption serves as a Competent Authority Approval (CA-9807009) issued by the Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, of the United States Department of Transportation, in accordance with International Maritime Dangerous Goods (IMDG) Code, Volume II, Introduction to Class 2, Paragraph 2.3.2.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle and cargo vessel.

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10. MODAL REQUIREMENTS:

a. A current copy of this exemption must be carried aboard each cargo vessel or motor vehicle used to transport packages covered by this exemption.

b. For highway transportation, the two propellants authorized by this exemption may not be transported on the same motor vehicle simultaneously. The maximum quantity of any propellant on a motor vehicle may not exceed 24 liters (3 tanks).

c. The cargo vessels used to transport the materials authorized by this exemption must be operated by Matson Navigation Company, Port of Oakland, California.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued at Washington, D.C.:



Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

OCT 3 2000
(DATE)

Address all inquiries to: Associate Administrator for Hazardous
Materials Safety, Research and Special Programs Administration,
Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office.
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PO: PTolson